UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

LULUI CSS.	COMMISSIONER FOR LATEM 12
	P.O. Box 1450
	Alexandria, Virginia 22313-1450
	www.uspto.gov

APPLICATION	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/629,87	5	07/28/2003	Arthur G. Birchenough	NLR-35279	5577	
116	7590	03/25/2005		EXAM	EXAMINER	
PEARNE & GORDON LLP 1801 EAST 9TH STREET			NGUYEN, MATTHEW VAN			
SUITE 1200				ART UNIT	PAPER NUMBER	
CLEVELAND, OH 44114-3108				2838		
		DATE MAILED: 03/25/2009	5			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/629,875	BIRCHENOUGH, ARTHUR G.				
		Examiner	Art Unit				
		MATTHEW V. NGUYEN	2838				
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet with t	he correspondence address				
THE - External control	HORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIC ensions of time may be available under the provisions of 37 CFF or SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, a poperiod for reply is specified above, the maximum statutory peure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the month patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (30 ricd will apply and will expire SIX (6) MONTHS atute, cause the application to become ABAND	be timely filed O) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status							
1)🛛	1)⊠ Responsive to communication(s) filed on <u>28 July 2003</u> .						
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.						
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5) [6) [✓ Claim(s) 1-20 is/are pending in the application. ✓ 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ☐ Claim(s) is/are rejected. ✓ Claim(s) 1-20 is/are objected to. 						
Applicat	ion Papers						
9)	The specification is objected to by the Exam	niner.					
10)⊠	The drawing(s) filed on <u>28 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to	the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		, □	(272.440)				
2) 🔲 Notic 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date	_	nary (PTO-413) ail Date nal Patent Application (PTO-152)				

Application/Control Number: 10/629,875

Art Unit: 2838

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Claims 1-12, drawn to a particular buck-boost regulator, classified in class
 323, subclass 268.

Page 2

II. Claims 13-20, drawn to a particular structure of a series connected buckboost regulator having a bride configuration switching circuit, classified in class 363, subclass 132.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the buck-boost regulator as claimed in Group I does not necessary to contain particular elements as claimed in a bridge configuration switching regulator in Group II. The subcombination has separate utility such as the bridge configuration switching regulator can be used in a regulator which does not have a current limiting mode that the buck-boost regulator has.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/629,875

Art Unit: 2838

Page 3

4. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Matthew V. Nguyen whose telephone number is (571) 272-2081.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2800.

MATTHEW V. NGUYEN

REIMARY EXAMINER